

10/083,685

Page 1

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L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2003:331993 CAPLUS
 DOCUMENT NUMBER: 138:354135
 TITLE: Preparation of 17-chloro-D-homosteroid as selective estrogen receptor antagonists
 INVENTOR(S): Tornus, Ingo Ring, Sven Schubert, Gerd
 PATENT ASSIGNEE(S): Schering AG, Germany
 SOURCE: Ger. Offen., 12 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|------------------|----------|
| DE 10151365 | A1 | 20030430 | DE 2001-10151365 | 20011017 |
| WO 2002068548 | A1 | 20020906 | WO 2002-EP2117 | 20020227 |
| WO 2002068548 | C2 | 20030220 | | |
| WO 2002068548 | A3 | 20030605 | | |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZH, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 US 2003083377 A1 20030501
 PRIORITY APPLN. INFO.: US 2001-271409P P 20010227
 DE 2001-10151365 A 20011017
 US 2001-329736P P 20011018

OTHER SOURCE(S): CASREACT 138:354135; MARPAT 138:354135
 AB The present invention discloses prepn. of 17-chloro-D-homosteroids, e.g., I [R1 = H, Cl-6-alkanoyl, COPh; R2 = Cl-6-alkyl; R3 = H, Cl-6-alkyl, Cl-6-alkanoyl, COPh; R4 = H, Cl-6-alkyl, fluoroalkyl, C.tplbond.CRS; R5 = H, Cl-6-alkyl, (un)substituted phenyl], for their use as selective estrogen receptor antagonists. Thus, I [R1 = R3 = H, R2 = Et, R4 = CH2C.tplbond.CH] was prepd. from 3-methoxy-18a-homoestra-1,3,5(10)-trien-17.beta.-ol via Jones oxidn., enol silylation, ring expansion with sodium trichloroacetate. The new compds. are suitable for contraception with men and women, without affecting other estrogenic-sensitive organs like the uterus or the liver. They are also suitable for the treatment of benign or malignant proliferative illnesses of the ovaries, like ovarian carcinomas and Granulosa cell tumors.

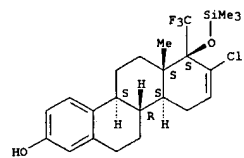
IT 454485-63-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (O-demethylation of; prepn. of 17-chloro-D-homosteroids as selective estrogen receptor antagonists)
 RN 454485-63-3 CAPLUS
 CN 1-Chrysenol, 2-chloro-1-ethynyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-12a-methyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

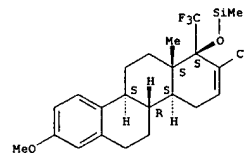
IT 454485-60-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and desilylation of; prepn. of 17-chloro-D-homosteroids as selective estrogen receptor antagonists)
 RN 454485-60-0 CAPLUS
 CN 2-Chrysenol, 8-chloro-4b,5,6,6a,7,10,10a,10b,11,12-decahydro-6a-methyl-7-(trifluoromethyl)-7-[(trimethylsilyl)oxy]-, (4bS,6aS,7S,10aS,10bR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 454485-61-1P 454485-62-2P 454485-64-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and reductive demethylation of; prepn. of 17-chloro-D-homosteroids as selective estrogen receptor antagonists)
 RN 454485-61-1 CAPLUS
 CN Silane, [(1S,4aS,4bR,10bS,12aS)-2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-12a-methyl-1-(trifluoromethyl)-1-chrysenyl]oxy]trimethyl-, (9CI) (CA INDEX NAME)

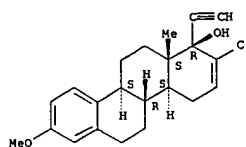
Absolute stereochemistry. Rotation (-).



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 CN 1-Chrysenol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-1,12a-dimethyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

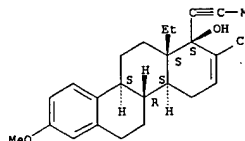
Absolute stereochemistry. Rotation (-).

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



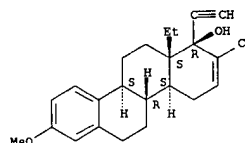
IT 454485-57-5
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 (prepn. and O-demethylation of; prepn. of 17-chloro-D-homosteroids as selective estrogen receptor antagonists)
 RN 454485-57-5 CAPLUS
 CN 1-Chrysenol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-1-(1-propynyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 454485-55-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and O-demethylation of; prepn. of 17-chloro-D-homosteroids as selective estrogen receptor antagonists)
 RN 454485-55-3 CAPLUS
 CN 1-Chrysenol, 2-chloro-12a-ethyl-1-ethynyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

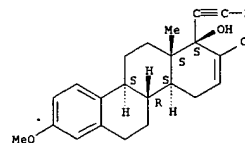
Absolute stereochemistry.



L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

RN 454485-64-4 CAPLUS
 CN 1-Chrysenol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-12a-methyl-1-(1-propynyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



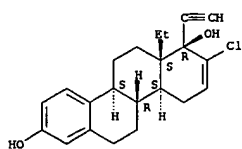
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 454485-37-1P 454485-38-2P 454485-39-3P
 454485-40-6P 454485-41-7P 454485-42-8P
 454485-43-9P 454485-44-0P 454485-45-1P
 454485-46-2P 454485-47-3P 454485-48-4P
 454485-49-5P 454485-52-0P 454485-53-1P
 454485-54-2P 518045-83-5P 518045-85-7P
 518045-86-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of 17-chloro-D-homosteroids as selective estrogen receptor antagonists)

RN 454485-33-7 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1-ethynyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

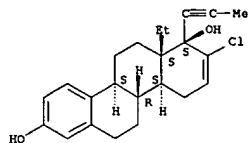
Absolute stereochemistry. Rotation (-).

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



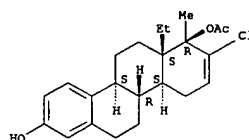
RN 454485-34-8 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-(1-propynyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 454485-36-0 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-methyl-, 1-acetate, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

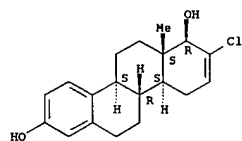
Absolute stereochemistry.



RN 454485-37-1 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-(trifluoromethyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

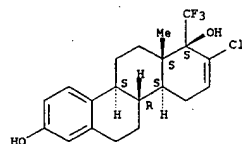
Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



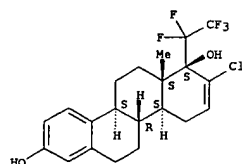
RN 454485-41-7 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 454485-42-8 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(pentafluoroethyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

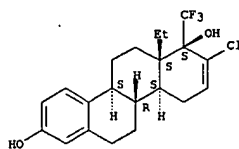
Absolute stereochemistry.



RN 454485-43-9 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1,12a-dimethyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

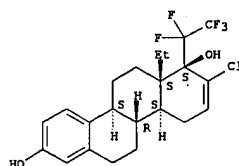
Absolute stereochemistry. Rotation (-).

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



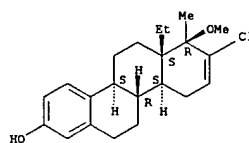
RN 454485-38-2 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-(pentafluoroethyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 454485-39-3 CAPLUS
 CN 2-Chrysenol, 8-chloro-6a-ethyl-4b,5,6,6a,7,10,10a,10b,11,12-decahydro-7-methoxy-7-methyl-, (4bS,6aS,7R,10aS,10bR)- (9CI) (CA INDEX NAME)

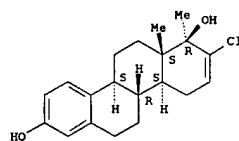
Absolute stereochemistry.



RN 454485-40-6 CAPLUS
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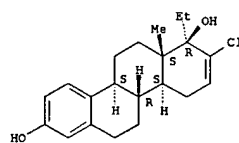
Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



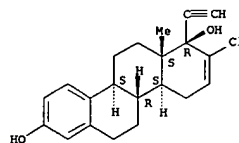
RN 454485-44-0 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 454485-45-1 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1-ethynyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

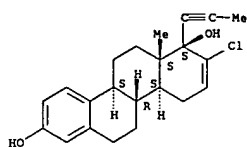
Absolute stereochemistry. Rotation (-).



RN 454485-46-2 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(1-propynyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

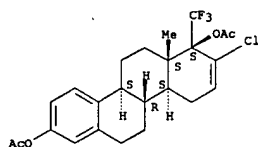
Absolute stereochemistry. Rotation (-).

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



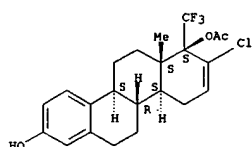
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 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(trifluoromethyl)-, diacetate, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



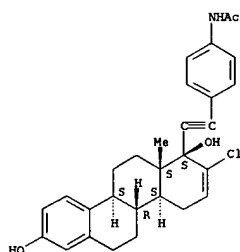
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Absolute stereochemistry.



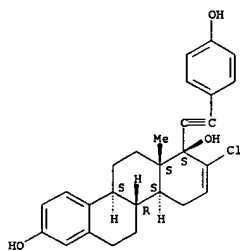
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 CN 2-Chrysenol, 8-chloro-4b,5,6,6a,7,10,10a,10b,11,12-decahydro-7-methoxy-6a-methyl-7-(trifluoromethyl)-, (4bS,6aS,7S,10aS,10bR)- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



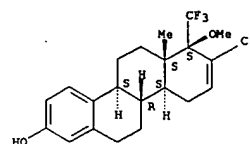
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 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-[(4-hydroxyphenyl)ethynyl]-12a-methyl-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



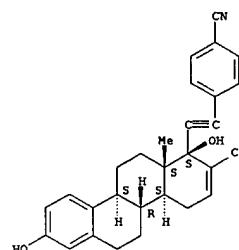
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Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
 Absolute stereochemistry.

RN 454485-52-0 CAPLUS
 CN Benzonitrile, 4-[[[1S,4aS,4bR,10bS,12aS)-2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1,8-dihydroxy-12a-methyl-1-chrysenyl]ethynyl]- (9CI) (CA INDEX NAME)

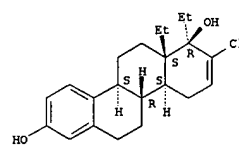
Absolute stereochemistry.



RN 454485-53-1 CAPLUS
 CN Acetamide, N-[[[1S,4aS,4bR,10bS,12aS)-2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1,8-dihydroxy-12a-methyl-1-chrysenyl]ethynyl]phenyl]- (9CI) (CA INDEX NAME)

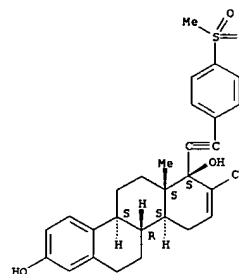
Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



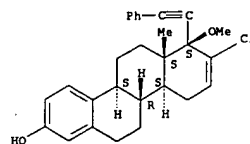
RN 518045-85-7 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-[[4-(methylsulfonyl)phenyl]ethynyl]-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 518045-86-8 CAPLUS
 CN 2-Chrysenol, 8-chloro-4b,5,6,6a,7,10,10a,10b,11,12-decahydro-7-methoxy-6a-methyl-7-(phenylethynyl)-, (4bS,6aS,7S,10aS,10bR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:676115 CAPLUS
 DOCUMENT NUMBER: 137:196043
 TITLE: Synthesis and use of 17-chloro-D-homosteroids as ER.beta.-selective ligands for regulating fertility and treating ovarian disease
 INVENTOR(S): Hegele-Hartung, Christa; Fritzscheier, Karl-Heinrich; Yamamoto, Hiroshi; Peters, Olaf; Kossmund, Dirk; Mueller, Gerd; Tornus, Ingo; Schubert, Gerd
 PATENT ASSIGNEE(S): Schering Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 44 pp.
 CODEN: PIXXDZ
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| WO 2002068548 | A1 | 20020906 | WO 2002-EP2117 | 20020227 |
| WO 2002068548 | C2 | 20030220 | | |
| WO 2002068548 | A3 | 20030605 | | |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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 PRIORITY APPLN. INFO.: US 2001-271409P P 20010227
 DE 2001-10151365 A 20011017
 US 2001-329736P P 20011018

OTHER SOURCE(S): MARPAT 137:196043

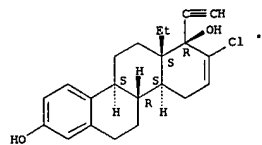
AB The present invention relates to the use of a new principle for (a) improving pregnancy potential with ER.beta.-agonists in connection with in vivo treatment and in connection with in vitro fertilization (IVF) and embryo transfer treatment and (b) inhibiting pregnancy potential with ER.beta.-antagonists. More specifically, the application relates to (a) improvement of pregnancy potential of oocytes and preimplantational embryos by improvement and stimulation of ovarian folliculogenesis and (b) inhibition of pregnancy potential by inhibiting folliculogenesis, ovulation and preimplantational development of ovulated oocytes. This present invention relates further to new compds. as pharmaceutical active ingredients, which have in vitro a higher affinity to estrogen receptor prepn. of rat prostates than to estrogen receptor prepn. of rat uteri and exert a contraceptive action in vivo by their preferential action on the ovary, to their prodn., their therapeutic application and pharmaceutical forms for dispensing that contain the new compds. The chem. compds. are novel, steroidal, tissue-selective antiestrogens, specifically 17-chloro-D-homosteroids.

IT 454485-33-7P 454485-34-8P 454485-35-9P
 454485-36-0P 454485-37-1P 454485-38-2P
 454485-39-3P 454485-40-6P 454485-41-7P
 454485-42-8P 454485-43-9P 454485-44-0P

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

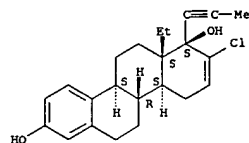
454485-45-1P 454485-46-2P 454485-47-3P
 454485-48-4P 454485-49-5P 454485-50-6P
 454485-51-7P 454485-52-0P 454485-53-1P
 454485-54-2P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (synthesis and use of 17-chloro-D-homosteroids as ER.beta.-selective ligands for regulating fertility and treating ovarian disease)
 RN 454485-33-7 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1-ethynyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 454485-34-8 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-(1-propynyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



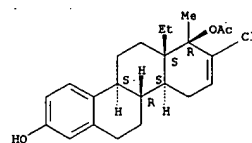
RN 454485-35-9 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-methyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

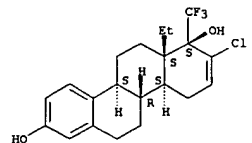
RN 454485-36-0 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-methyl-, 1-acetate, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 454485-37-1 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-(trifluoromethyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

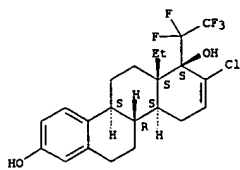
Absolute stereochemistry.



RN 454485-38-2 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-(pentafluoroethyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

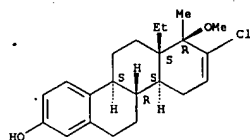
Absolute stereochemistry.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



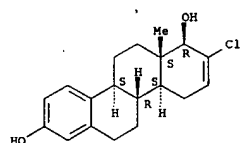
RN 454485-39-3 CAPLUS
CN 2-Chrysenol, 8-chloro-6a-ethyl-4b,5,6,6a,7,10,10a,10b,11,12-decahydro-7-methoxy-7-methyl-, (4bS,6aS,7R,10aS,10bR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 454485-40-6 CAPLUS
CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

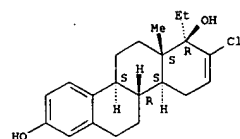
Absolute stereochemistry.



RN 454485-41-7 CAPLUS
CN 1,8-Chrysenediol, 2-chloro-1-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(trifluoromethyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

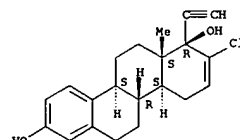
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

Absolute stereochemistry.



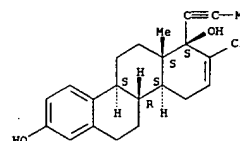
RN 454485-45-1 CAPLUS
CN 1,8-Chrysenediol, 2-chloro-1-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(1-propynyl)-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



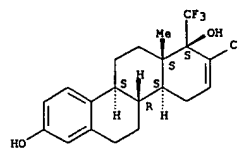
RN 454485-46-2 CAPLUS
CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-7-methoxy-6a-methyl-1-(1-propynyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



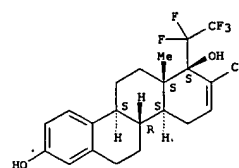
RN 454485-47-3 CAPLUS
CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(trifluoromethyl)-, diacetate, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
Absolute stereochemistry. Rotation (-).

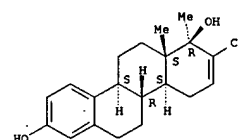
RN 454485-42-8 CAPLUS
CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(pentafluoroethyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 454485-43-9 CAPLUS
CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1,12a-dimethyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

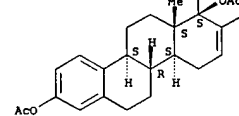
Absolute stereochemistry. Rotation (-).



RN 454485-44-0 CAPLUS
CN 1,8-Chrysenediol, 2-chloro-1-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(trifluoromethyl)-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

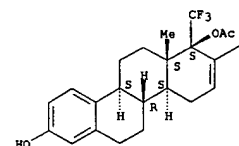
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

Absolute stereochemistry.



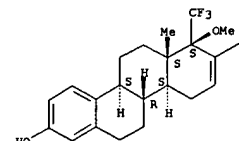
RN 454485-48-4 CAPLUS
CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(trifluoromethyl)-, 1-acetate, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 454485-49-5 CAPLUS
CN 2-Chrysenol, 8-chloro-4b,5,6,6a,7,10,10a,10b,11,12-decahydro-7-methoxy-6a-methyl-7-(trifluoromethyl)-, (4bS,6aS,7S,10aS,10bR)- (9CI) (CA INDEX NAME)

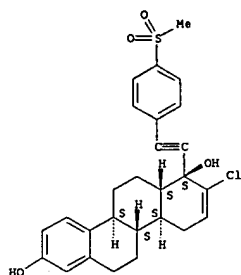
Absolute stereochemistry.



RN 454485-50-8 CAPLUS
CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-[(4-methylsulfonyl)phenyl]ethynyl-, (1S,4aS,4bS,10bS,12aS)- (9CI) (CA INDEX NAME)

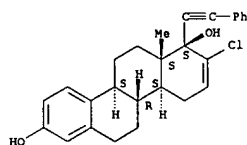
Absolute stereochemistry.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 454485-51-9 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-12a-methyl-1-(phenylethynyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

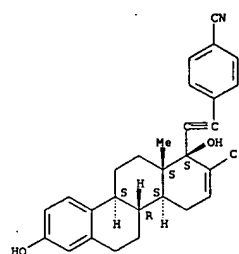
Absolute stereochemistry.



RN 454485-52-0 CAPLUS
 CN Benzonitrile, 4-[[[1S,4aS,4bR,10bS,12aS)-2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1,8-dihydroxy-12a-methyl-1-chrysenyl]ethynyl]- (9CI) (CA INDEX NAME)

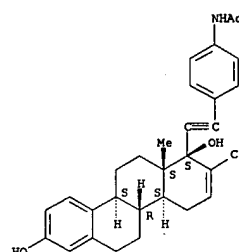
Absolute stereochemistry.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 454485-53-1 CAPLUS
 CN Acetamide, N-[4-[[[1S,4aS,4bR,10bS,12aS)-2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1,8-dihydroxy-12a-methyl-1-chrysenyl]ethynyl]phenyl]- (9CI) (CA INDEX NAME)

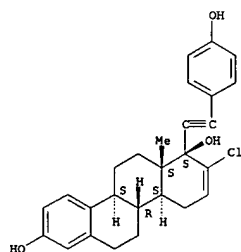
Absolute stereochemistry.



RN 454485-54-2 CAPLUS
 CN 1,8-Chrysenediol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-1-[(4-hydroxyphenyl)ethynyl]-12a-methyl-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

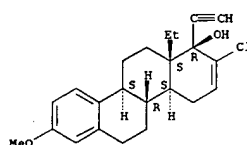
Absolute stereochemistry.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



IT 454485-55-3 454485-52-2 454485-63-3
 454485-64-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (synthesis and use of 17-chloro-D-homosteroids as ER.beta.-selective ligands for regulating fertility and treating ovarian disease)
 RN 454485-55-3 CAPLUS
 CN 1-Chrysenol, 2-chloro-12a-ethyl-1-ethynyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

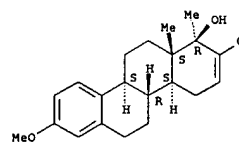
Absolute stereochemistry.



RN 454485-62-2 CAPLUS
 CN 1-Chrysenol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-1,12a-dimethyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

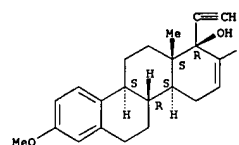
Absolute stereochemistry. Rotation (-).

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



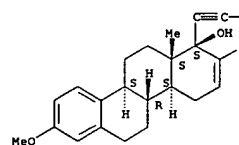
RN 454485-63-3 CAPLUS
 CN 1-Chrysenol, 2-chloro-1-ethynyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-12a-methyl-, (1R,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 454485-64-4 CAPLUS
 CN 1-Chrysenol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-12a-methyl-1-(1-propynyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

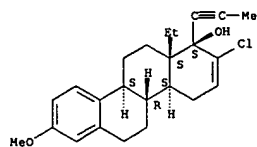
Absolute stereochemistry. Rotation (-).



IT 454485-57-5P 454485-59-7P 454485-60-0P
 454485-61-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and use of 17-chloro-D-homosteroids as ER.beta.-selective ligands for regulating fertility and treating ovarian disease)
 RN 454485-57-5 CAPLUS
 CN 1-Chrysenol, 2-chloro-12a-ethyl-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-1-(1-propynyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

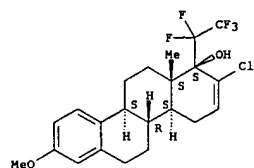
Absolute stereochemistry.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



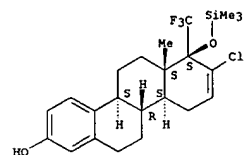
RN 454485-59-7 CAPLUS
 CN 1-Chrysenol, 2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-decahydro-8-methoxy-12a-methyl-1-(pentaffluoroethyl)-, (1S,4aS,4bR,10bS,12aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 454485-60-0 CAPLUS
 CN 2-Chrysenol, 8-chloro-4b,5,6,6a,7,10,10a,10b,11,12-decahydro-6a-methyl-7-(trifluoromethyl)-7-[(trimethylsilyl)oxy]-, (4bS,6aS,7S,10aS,10bR)- (9CI) (CA INDEX NAME)

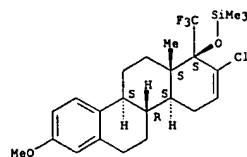
Absolute stereochemistry. Rotation (-).



RN 454485-61-1 CAPLUS
 CN Silane, [(1S,4aS,4bR,10bS,12aS)-2-chloro-1,4,4a,4b,5,6,10b,11,12,12a-

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
 decahydro-8-methoxy-12a-methyl-1-(trifluoromethyl)-1-chrysenyl]oxy]trimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 14:27:54 ON 05 AUG 2003)

FILE 'REGISTRY' ENTERED AT 14:28:11 ON 05 AUG 2003

L1 STRUCTURE UPLOADED

L2 2 S L1

L3 33 S L1 FULL

FILE 'CAPLUS' ENTERED AT 14:28:54 ON 05 AUG 2003

L4 2 S L3

FILE 'USPATFULL' ENTERED AT 14:34:32 ON 05 AUG 2003

L5 1 S L3

L6 0 S L5 NOT L4

FILE 'BEILSTEIN' ENTERED AT 14:34:48 ON 05 AUG 2003

L7 0 S L1 FULL